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To: Examiner Ula Corinna Ruddock **From:** Mary Jo Redman
Fax: 703-872-9310 **Pages:** 3
Phone: **Date:** 5/28/2004
Re: Examiner's Amendment **CC:**
☒ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

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• **Comments:**

In re Application of: Edward R. Fyfe
For: Coating and Method for Strengthening a Structure
Serial No: 10/072,677
Filed: Feb. 7, 2002
Group: 1771
Examiner: Ruddock

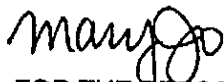
Hello Ula—I know you have probably entered your amendment, but the inventor asked if I would see if the word "polyurea" could be added to the first dependent claim, as in the attached sheets.

Polyurea is supported in the spec on page 5, line 28.

The attached sheets of claims are my interpretation of how the claims could be re-written to include "two-component formulation that reacts upon mixing to become an elastomer" in the first claim. I know you may have done it differently.

Thanks for considering this. The inventor is generally pleased with your amendment.

Mary Jo Redman



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CLAIMS PER EXAMINER'S AMENDMENT

1. In combination:

2 a structure that includes a wall having a surface; and
a composite coating adhering to said surface of said wall for increasing the
4 resistance to explosion forces of said structure; comprising:
a first layer; comprising:
6 an elastomer in intimate contact with and adhering permanently to
said surface of said wall;
8 a second layer; comprising:
an elastomer in intimate contact with and adhering permanently to
10 said first layer; and
textile embedded between said first and second layers; wherein said elastomer is the
12 product of a fluid precursor that cures in ambient conditions to form said elastomer; AND
WHEREIN SAID FLUID PRECURSOR IS A TWO-COMPONENT FORMULATION THAT
14 REACTS UPON MIXING TO BECOME AN ELASTOMER; and wherein said composite
coating functions to increase the apparent ductility and elongation of the wall when sudden
16 lateral or explosive force is applied to the structure.

2. The combination of claim 1, wherein said fluid precursor reacts upon mixing to become
2 polyurethane OR POLYUREA elastomer.

3. The combination of claim 1, wherein said two-component formulation is applied to said
2 surface by spraying.

4. The combination of claim 1, said textile comprising a fabric including yarns of glass, carbon,
2 polyaramid, or polyimide.

5. The combination of claim 4, wherein said yarns are woven with adjacent parallel yarns spaced
2 apart one-sixteenth of an inch to one inch so as to create openings in said textile penetrable by
said fluid precursor.

6. The combination of claim 1, said second layer further including means for rendering said
coating fire-resistant.

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7. The combination of claim 1 wherein: said composite coating covers substantially the entire said surface of said wall.

8. The combination of claim 1 wherein: said composite coating covers a portion of each of two said walls and an interior angle connecting said two walls; and further including:

a coving installed in the vertex of the interior angle, for supporting said composite coating in forming a curve having a radius of 0.4 inch or greater.

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